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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,755	01/05/2004	Jiin-Huey Chern Lin	LINJ3054/EM	1696
23364	7590 01/20/2006		EXAMINER	
	THOMAS, PLLC		JENKINS, DANIEL J	
625 SLATERS FOURTH FLO	ATERS LANE H FLOOR		ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314			1742	
			DATE MAIL ED: 01/20/2006	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/750,755	CHERN LIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Daniel J. Jenkins	1742				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a nation will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION.  eply be timely filed  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 14	4 September 2005.					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ T	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allo	wance except for formal matt	ers, prosecution as to the merits is				
closed in accordance with the practice unde	er <i>Ex par</i> te Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) 1-22 is/are pending in the applicati	Claim(s) 1-22 is/are pending in the application.					
4a) Of the above claim(s) is/are without						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction an	d/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exam	iner.					
10) The drawing(s) filed on is/are: a) □ a	accepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeyan	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the cor	rection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	ign priority under 35 U.S.C. §	119(a)-(d) or (f).				
1. Certified copies of the priority docume	ents have been received.					
2. Certified copies of the priority docume	ents have been received in A	pplication No				
<ol><li>Copies of the certified copies of the p</li></ol>	riority documents have been	received in this National Stage				
application from the International Bur	, , , ,					
* See the attached detailed Office action for a	list of the certified copies not	received.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)		Summary (PTO-413)				
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/</li> </ul>		s)/Mail Date. <u>9/14/05</u> . nformal Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	the state of the s				

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1. The Office makes a new rejection which is accordingly not made final.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 4, 5, 6, 12, 13, 18, 19 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the

subject matter which applicant regards as the invention.

With respect to claims 4, 5, 12, 13, 18 and 19, the limitation to "substantially free from V" or "substantially free from Al" fail to further limit the independent claim since the independent claims include the transitional phrase "consisting essentially of."

Claim 6 is considered indefinite since it adds further elements not specified in claim 1 (e.g., Fe, Cr, Al, note that claim 1 is closed in the use of the transitional phrase "consisting essentially of", and includes limitations that exclude Bi of which is included in claim 1.

Claim 20 is considered indefinite for the same reasons as claim 6.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 9-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Japanese Patent 62-199744A (JP'744).

JP'744 discloses a method of improving the castability of a titanium alloy since it discloses a titanium alloy consisting essentially of 0.01-5 wt% Bi (e.g. 0.05-2.00% Bi, se the constitution portion of the abstract), at least one alloy selected from the group consisting of Mo, Nb, Ta, Zr, and Hf (e.g. Nb, Ta, Zr, and Hf, see the abstract), and the balance Ti.

With respect to claim 11, JP'744 discloses a method of improving the castability of a titanium alloy since they disclose a titanium ally consisting essentially of 0.01-5wt% Bi (e.g., 0.05-2.00 % Bi, see the constitution portion of the abstract), at least one alloy selected from the group consisting of Mo, Nb, Ta, Zr, and Hf (e.g., Nb, Ta, Zr, and Hf, see the abstract), at least one eutectoid beta stabilizing agent selected from the group consisting of Fe, Cr, Mn, Co, Ni, Cu, Ag, Au, Pd, Si, and Sn (e.g., the Pt group elements including Ag, Au, and Pd, see the constitution portion of the abstract), and the balance Ti.

Concerning claim 10, JP'744 discloses 0.1-3wt% Bi (see the abstract).

As to claim 12, JP'744 discloses the alloy composition as being substantially free from V (see the "or" language on lien 3 of the constitution section of the abstract).

As to claim 13, JP'744 further discloses the alloy composition as being substantially free from Al (since Al is not mentioned in the abstract).

Regarding claim 14, JP'744 discloses compositions including TI and Nb: Ti and Zr; and Ti, Nb, and Zr.

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7.

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of

the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

8. Claims 1-8 and 15-22 are rejected under 35 U.S.C. 103(a) as being unpatentable

over JP'744 in view of Prasad (US Pat. No. 5,091,148).

JP'744 discloses the invention substantially as claimed (see paragraph 5 above).

However, JP'744 does not disclose wherein the alloy is in the form of a medical device.

Prasad discloses an analogous titanium ally for forming a medical device (e.g., a dental

casting, see abstract). It would have been obvious to have modified the alloy of JP'744

into the form of a medical device as suggested by Prasad since Prasad discloses that

an analogous titanium alloy can be used to form a medical device.

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With respect to claim 3, JP'744 discloses a titanium ally consisting essentially of 0.01-5 wt% Bi (e.g., 0.05-2.00 % Bi, see the constitution portion of the abstract), at least one alloy selected from the group consisting of Mo, Nb, Ta, Zr, and Hf (e.g., Nb, Ta, Zr, and Hf, see the abstract), at least one eutectoid beta stabilizing agent selected from the group consisting of Fe, Cr, Mn, Co, Ni, Cu, Ag, Au, Pd, Si, and Sn (e.g., the Pt group elements including Aq, Au, and Pd, see the constitution portion of the abstract), and the balance Ti. JP'744 fails to specify the alloy as forming a medical device. Prasad discloses an analogous titanium alloy for forming a medical device (e.g., a dental casting, see abstract). It would have been obvious to have modified the alloy of JP'744 into the form a medical device as suggested by Prasad since Prasad discloses that an analogous titanium alloy can be used to form a medical device. With respect to claim 15, JP'744 further discloses a method of making an article using a titanium alloy consisting essentially of 0.01-5wt% Bi (e.g., 0.05-2.00 % Bi, see the constitution portion of the abstract), at least one alloy selected from the group consisting of Mo, Nb, Ta, Zr, and Hf (e.g., Nb, Ta, Zr, and Hf, see the abstract), and the balance Ti. JP'744 fails to specify a method of making a medical device including casting the titanium alloy. Prasad discloses a method of making a medical device (e.g., a dental casting, see the abstract) by casting using an analogous titanium alloy. It would have

casting, see the abstract) by casting using an analogous titanium alloy. It would have been obvious to modify the method of JP'744 so as to have formed a medical device by casting as suggested by Prasad since Prasad discloses that an analogous titanium alloy can be used in a method for forming a medical device using an analogous titanium alloy.

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With respect to claim 17, JP'744 discloses a method of making an article using a titanium alloy consisting essentially of 0.01-5wt% Bi (e.g., 0.05-2.00 % Bi, see the constitution portion of the abstract), at least one eutectoid beta stabilizing agent selected from the group consisting of Mo, Nb, Ta, Zr, and Hf (e.g., Nb, Ta, Zr, and Hf, see the abstract), at least one eutectoid beta stabilizing agent selected from the group consisting of Fe, Cr, Mn, Co, Ni, Cu, Ag, Au, Pd, Si, and Sn (e.g., the Pt group elements including Ag, Au, and Pd, see the constitution portion of the abstract), and the balance Ti. JP'744 fails to specify a method of making a medical device including casting the titanium alloy. Prasad discloses a method of making a medical device (e.g., a dental casting, see the abstract) by casting using an analogous titanium alloy. It would have been obvious to modify the method of JP'744 so as to have formed a medical device by casting as suggested by Prasad since Prasad discloses that an analogous titanium alloy can be used in a method for forming a medical device using an analogous titanium alloy.

In regard to claims 2 and 16, JP'744 discloses 0.1-3wt% bi (see the abstract).

In regard to claims 4 and 18, JP'744 discloses the alloy composition as being substantially free from V (see the "or" language on lien 3 of the constitution section of the abstract).

In regard to claims 5 and 19, JP'744 discloses the alloy composition as being substantially free from AI (since AI is not mentioned in the abstract).

In regard to claims 6 and 20, JP'744 discloses compositions including: Ti and Nb; Ti and Zr; and Ti, Nb, and Zr.

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In regard to claims 7, 8, 21 and 22, Prasad discloses a dental casting of which can be considered a medical implant.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is 571-272-1242. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1242. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel J. Jenkins
Primary Examiner
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